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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,009	03/31/2004	James Christopher Deepak	1880.004US1	9222
21186	7590 03/27/20	6	EXAMINER	
SCHWEGN	MAN, LUNDBERG,	PHAM, LONG		
1600 TCF TOWER 121 SOUTH EIGHT STREET MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 03/27/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/815,009	DEEPAK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Long Pham	2814				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	_·					
,	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-17 and 30-46</u> is/are pending in the application.						
4a) Of the above claim(s) 6-11, 30-39, and 44-46 is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>40-43</u> is/are allowed.						
6)⊠ Claim(s) <u>1-5 and 12-17</u> is/are rejected.						
7) Claim(s) is/are objected to.	, <u> </u>					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D	eate Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of claims 1-5, 12-17, and 40-43 in the reply filed on 01/03/06 is acknowledged. The traversal is on the ground(s) that see election of 01/03/06. This is not found persuasive because the unpatentability of one species does not imply the unpatentability of another species and the searches for different species are not coextensive.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 12-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu et al. (publication no. 59085395) in combination with McAndrew (US patent 6,066,402).

With respect to claims 1, 2, 12, and 13, Shimizu et al. teach a lead solder layer or coating or plating or finish layer including 97.5 percent weight of lead, 1.5 percent weight of silver, and a balance of tin. See the English abtract.

With respect to claims 3 and 13, Shimizu et al. appear to fail to teach that lead solder layer or coating or plating further includes 9-11 percent weight of antimony.

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McAndrew teaches a lead solder layer or coating or finish layer having 8.5 to 11.5 percent weight of antimony to achieve good mechanical strength. See the abstract.

It would have been obvious to one of <u>ordinary skill</u> in the art of making semiconductor devices to include antimony as taught by McAndrew in the lead solder layer or coating or plating or finish layer of Shimizu et al. to obtain the above benefit.

With respect to claim 4, the coupling of a lead to a surface mount component is well-known in the art.

With respect to claim 5, the coupling of a lead to a downhole electronic assembly is welll-known in the art.

Furter with respect to claims 12, 14, 15, 16, and 17, Shimizu et al. in combination with McAndrew fail to teach connecting a downhole transducer or a pressure sensor or an accelerometer or a processor or a amplifier to the lead.

However, the connection or coupling of a downhole transducer or a pressure sensor or an accelerometer or a processor or a amplifier is well-known.

Allowable Subject Matter

Claims 40-43 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 571-272-1714. The examiner can normally be reached on Mon-Frid, 10am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Long Pham

Primary Examiner

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LP